

GenCore version 5.1.4.p5.4578  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: April 1, 2003, 08:47:51 ; Search time 64.5 Seconds  
(without alignments)  
5739.073 Million cell updates/sec

Title: US-09-768-781-2

Perfect score: 2543

Sequence: 1 atgaacacaagaccacacaa.....caaggcaagtggtgtctga 1389

Scoring table: BLOSUM62

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Ygapop 10.0, Ygapext 0.5

Fgapop 6.0, Fgapext 7.0

Delop 6.0, Delext 7.0

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 1816940

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	881	34.6	410	23	Novel human protei
2	660	26.0	131	23	Human polypeptide
3	627	24.7	125	22	Novel human connec
4	614	24.1	216	22	Human peptide #94
5	614	24.1	216	22	Peptide #98 encode
6	614	24.1	216	22	Protein #88 encode
7	614	24.1	216	22	Human brain expres
8	614	24.1	216	22	Human bone marrow
9	614	24.1	216	22	Peptide #95 encode
10	614	24.1	216	22	Peptide #97 encode
11	614	24.1	216	22	Peptide #93 encode
12	614	24.1	216	23	Human peptide enco
13	361	14.2	128	22	Protein #4595 enco
14	361	14.2	128	22	Human brain expres
15	174.5	6.9	86	22	Peptide #2521 enco
16	174.5	6.9	86	22	Peptide #2560 enco
17	174.5	6.9	86	22	Protein #2465 enco
18	174.5	6.9	86	22	Human brain expres
19	174.5	6.9	86	22	Human bone marrow
20	174.5	6.9	86	22	Peptide #2496 enco
21	174.5	6.9	86	22	Peptide #2595 enco
22	174.5	6.9	86	22	Peptide #2471 enco
23	174.5	6.9	86	23	Human peptide enco
24	169	6.6	129	19	XX related Y (XKRY
25	127	5.0	686	22	Human PRO polypept
26	121.5	4.8	783	23	Herbically activ
27	119.5	4.7	264	22	Human gene 12 enco
28	119.5	4.7	264	23	Human albumin fusi
29	114	4.5	800	23	Staphylococcus epi
30	113	4.4	264	22	Human gene 12 enco
31	113	4.4	264	23	Human albumin fusi
32	111.5	4.4	785	23	Herbically activ
33	108.5	4.3	497	20	L. helveticus pept
34	108.5	4.3	786	22	E. coli cellular p
35	108.5	4.3	858	23	Streptococcus poly
36	108	4.2	751	22	Salmonella typhi c
37	107	4.2	548	23	Streptococcus poly
38	107	4.2	550	23	Streptococcus poly
39	106	4.2	440	20	B. burgdorferi ant
40	106	4.2	440	20	B. burgdorferi ant
41	105.5	4.1	339	23	Lactococcus lactis
42	104	4.1	353	22	Novel human diagno
43	103.5	4.1	290	23	Staphylococcus epi
44	103.5	4.1	663	22	Human seven-transm
45	102	4.0	246	22	Novel human diagno

ALIGNMENTS

RESULT 1

ABBS97282  
ID ABBS97282 standard; Protein; 410 AA.

AC ABBS97282;

XX 27-JUN-2002 (first entry)

DT Novel human protein SEQ ID NO: 550.

DE Human; antianemic; vulnary; antiinflammatory; immunomodulator;  
KW antinfertility; cerebroprotective; cytosstatic; rheumatic; gene therapy;  
KW neuroprotective; antiparkinsonian; protein therapy; EST;  
XX expressed sequence tag.

OS Homo sapiens.

XX WO200222660-A2.

XX

PD 21-MAR-2002.  
XX 10-SEP-2001; 2001WO-US26015.  
PF 11-SEP-2000; 2000US-0659671.  
XX (HYSE-) HYSEQ INC.  
XX Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;  
PI Xue AJ, Yang Y, Wehrman T, Drmanac RT;  
XX WPI; 2002-292408/33.  
XX DR N-PSDB; ABN32468.  
XX An isolated polynucleotide for treating diseases associated with its  
PT encoded polypeptide such as cancer and multiple sclerosis -  
XX  
XX Example 2; SEQ ID NO 550; 509pp; English.  
XX The present invention provides the protein and coding sequences of 444  
CC novel human proteins. These were isolated from expressed sequences tags  
CC (ESTs). They can be used to stimulate cell growth, to regulate  
CC haematopoiesis e.g. to treat aplastic anaemia, to help tissue regrowth  
CC e.g. in burn treatment, to regulate the immune system e.g. to treat  
CC multiple sclerosis, to regulate activin or inhibin e.g. to treat  
CC infertility, to regulate haemostasis or thrombolysis e.g. to treat  
CC stroke and cancer, to screen for drugs, to treat inflammatory conditions  
CC e.g. rheumatoid arthritis, and to treat nervous system disorders e.g.  
CC Parkinson's disease. The present sequence is a protein of the invention.  
XX  
SQ Sequence 410 AA;  
  
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Pred. No.: 3,45e-88 Length: 410  
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QY 295 ATTTTGTCCAGAGATCTACCCAAAGATAACCGCTATCATTTATTTATGCTATCAATC 354  
Db 22 LeuPheValHisArgAspLeuSerArgAspArgProLeuValLeuLeuHisLeuLeu 41  
QY 355 CTCTTGGGACCTGTTATCAGATGTTTGGAGGCCATGATTAAAGTACCTCACCTGTGGAG 414  
Db 42 GlnLeuGlyProLeuPheArgCysPheGluValPheCysIleTyr-----PheGln 58  
QY 415 AAAGAGGAGCAGGAGCCCTATCTACGCTCACCCGAAAGAG---ATGCTAATAGAT 471  
Db 59 SerGlyAsnAsnGluGluProTyrValSerIleThrLysLeuArgGlnMetProLysAsn 78  
QY 472 GCGCAGGAGGTGCTCATAGATGGAGGTGGGCCATCTCCATCCGACCCCTGGCTATGCAC 531  
Db 79 GlyLeuSerGluGluIleGluLysGluValGlyGlnAlaGluGlyLysLeuIleThrHis 98  
QY 532 CGCAATGCTACAAAGTATGTCAGATCCAAAGCTTCTCGGCTCAGTGCCTCCAGCTG 591  
Db 99 ArgSerAlaPheSerArgAlaSerValIleGlnAlaPheLeuGlySerAlaProGlnLeu 118  
QY 592 ACCTATCAGCTTATGAGCTGATCTCTCGCAGAGTTCCCTCGGTAGAGTTGGCTA 651  
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QY 652 ATGGTATTTCCCTGGTATCTCTACCTATGGGCCACCCCTTTGCAATATGTTGGCTATC 711  
Db 139 MetThrIleSerLeuLeuSerIleValTyrGlyAlaLeuArgCysAsnIleLeuAlaIle 158

QY 712 CAGATCAAGTAGATGACTACAAGATTGCGCTTGGCCACTAGAGTCTCTCTGCAATCACC 771  
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QY 772 ATCTGCGGACATTTGGAGATCACTTCCCGCCCTCCTGATTCTGGTGTCTTCTCAGCCACT 831  
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QY 832 TTGAATTTGAAGCGTGTGCGCTTCTAGTGTCTCACTTCTCTGATCATCTCTTTGAGCCC 891  
Db 199 LeuLysThrTrpValValIleIleLeuIleAsnPhePheSerPheLeuTyrPro 218  
QY 892 TGGATTAAGTTCTCGAGAAGTGGTCCAGATGCCCAATAACATTGAGAAAACTTCAGC 951  
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QY 952 CGGTCGGCAGCTGTGGTGTCTGATTTTCAGTCACCATCTCTATGCTGCGATCAACTTC 1011  
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QY 1132 TTGGTGTTTTAAAGTTCTTGGAGTGAAGTGTACTGAATTAATCTGTCATCTCTTGGATTGCC 1191  
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QY 1300 CATTTGTCTGTC-----TGTCAACAG 1320  
Db 359 ArgCysPheCysTrpAlaCysArgGln 367  
RESULT 2  
ABB89300  
ID ABB89300 standard; Protein; 131 AA.  
AC ABB89300;  
XX  
DT 24-MAY-2002 (first entry)  
XX  
DE Human polypeptide SEQ ID NO 1676.  
XX  
KW Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;  
KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;  
KW vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;  
KW cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;  
KW neurological disease; infection; human; secreted protein.  
OS Homo sapiens.  
XX  
PN WO200190304-A2.  
XX  
PD 29-NOV-2001.  
XX  
PF 18-MAY-2001; 2001WO-US16450.  
XX  
PR 19-MAY-2000; 2000US-205515P.  
XX  
PA (HUMA-) HUMAN GENOME SCI INC.

PI Birse CE, Rosen CA;  
 XX WPI; 2002-122018/16.  
 DR N-PSDB; ABL89709.  
 XX  
 PT Novel 1405 isolated polypeptides, useful for diagnosis, treatment and  
 PT prevention of neural, immune system, muscular, reproductive,  
 PT gastrointestinal, pulmonary, cardiovascular, renal and proliferative  
 PT disorders -  
 XX  
 PS Claim 11; SEQ ID NO 1676; 2081pp + Sequence Listing; English.  
 XX  
 CC The invention relates to novel genes (ABL89449-ABL90853) and proteins  
 CC (AB89040-AB89044) useful for preventing, treating or ameliorating  
 CC medical conditions e.g. by protein or gene therapy. The genes are  
 CC isolated from a range of human tissues disclosed in the specification.  
 CC The nucleic acids, proteins, antibodies and (ant)agonists are useful  
 CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast  
 CC and ovarian cancer and other cancers of the adrenal gland, bone, bone  
 CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;  
 CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune  
 CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's  
 CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative  
 CC colitis; (c) cardiovascular disorders such as myocardial ischaemias;  
 CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and  
 CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal  
 CC and parasitic infections.  
 CC Note: The sequence data for this patent did not form part of the  
 CC printed specification, but was obtained in electronic format directly  
 CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
 XX  
 SQ Sequence 131 AA;  
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 Best Local Similarity: 95.42% Mismatches: 5  
 Query Match: 25.95% Indels: 0  
 DB: 23 Gaps: 0  
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 DB 1 MetProAsnAnlleglulysAnPheSerArgValGlyThrLeuValValLeuIleSer 20  
 QY 982 GTCACCATCTCTATGCTGGCATCAACTTCTTGTCTGGTGGTTCAGCTTTGAGGTTG 1041  
 DB 21 ValThrIleLeuTyrAlaGlyIleAsnPheSerCysTrpSerAlaLeuGlnLeuArg\*\* 40  
 QY 1042 GCAGACAGAGATCTCTCGAAGGCGAGAACTGGGACATATGGCTGCACATAGT 1101  
 DB 41 AlaAspArgAspLeuValAspLysGlyGlnAsnTrpGlyHisMetGlyLeuHisTyrSer 60  
 QY 1102 GTGAGGTGTGATGAGATGATGATGATGATGATGATGATGATGATGATGATGATG 1161  
 DB 61 ValLysLeuValGlnAnValIleMetValLeuValPheLysPhe\*\*\*GlyValLysVal 80  
 QY 1162 TTACTGAATTAATGCTATTCCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 1221  
 DB 81 \*\*LeuAsnTyrCysHis\*\*\*Leu\*\*\*AlaLeuGlnLeuIleAlaTyrLeuIleSer 100  
 QY 1222 ATGGGTTTCATGCTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 1281  
 DB 101 IleGlyPheMetLeuLeuPhePheGlnTyrLeuHisProLeuArgSerLeuPheThrHis 120  
 QY 1282 AATGTAGTAGACTTACCTCCATTGCTGCTGT 1314  
 DB 121 AsnValValAspTyrLeuHisCysValCysCys 131  
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 AAU86530

ID  
 XX AAU86530 standard; Protein; 125 AA.  
 AC AAU86530;  
 XX  
 DT 21-MAY-2002 (first entry)  
 XX  
 DE Novel human connective tissue related polypeptide #98.  
 XX  
 KW Human; connective tissue related disorder; cancer; cytostatic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200155343-A1.  
 XX  
 PD 02-AUG-2001.  
 XX  
 PF 17-JAN-2001; 2001WO-US01322.  
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 PR 31-JAN-2000; 2000US-0179065.  
 PR 04-FEB-2000; 2000US-0180628.  
 PR 24-FEB-2000; 2000US-0184664.  
 PR 02-MAR-2000; 2000US-0186350.  
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 PR 17-MAR-2000; 2000US-0190076.  
 PR 18-APR-2000; 2000US-0198123.  
 PR 19-MAY-2000; 2000US-0205515.  
 PR 07-JUN-2000; 2000US-0209467.  
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PR 05-DEC-2000; 2000US-0256719.

PR 06-DEC-2000; 2000US-0251479.
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XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
XX WPI: 2001-565190/53.
XX N-PSDB; ABK41708.
XX
XX Nucleic acid encoding novel connective tissue associated polypeptides,
XX used in diagnosing, preventing, treating or ameliorating a disorder
XX such as cancer or rheumatoid arthritis -
XX
XX Claim 11; SEQ ID No 595; 673pp; English.
XX
XX The present invention relates to the isolation of novel human
XX connective tissue related polypeptides and the polynucleotide
XX (cDNA and genomic) sequences encoding them. The sequences of the
XX invention are useful in the diagnosis, treatment, prevention and/or
XX prognosis of diseases associated with connective tissue(s), including
XX cancer. The polynucleotide sequences of the invention are also useful
XX in gene therapy. AAU86435-AAU86923 represent the novel human connective
XX tissue related polypeptides.
XX
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 125 AA;

Alignment Scores:
Pred. No.: 2,648-60 Length: 125
Score: 627.00 Matches: 120
Percent Similarity: 96.03% Conservative: 1
Best Local Similarity: 95.24% Mismatches: 4
Query Match: 24.66% Indels: 1
DB: 22 Gaps: 0

US-09-768-781-2 (1-1389) x AAU86530 (1-125)
QY 939 GAAAAAATTTCAGCGGTCGGCAGCTCTGGTGCTCTGATTTCAGTCCACCATCTCTATGC 998
DB 1 GluLysLeuGlnProGlyArgHisSerGlyGly-LeuIleSerValThrIleLeuTyrAl 20
QY 999 TGGCATCAACTTCTTGTGTCAGCTTTGTCAGTTGAGTTGGCAGACAGATCTCGT 1058
DB 20 aGlyIleAsnPheSerCysTrpSerAlaLeuGlnLeuArgLeuAlaAspArgAspLeuVa 40
QY 1059 CGACAAAGGGCAGAACTGGGACATATGGCCTGCTACTAGTGTGAGTTGCTAGAGTTCAGAGAA 1118
DB 40 lAspLysGlyGlnAsnTrpGlyHisMetGlyLeuHisTyrSerValLysLeuValGluAs 60
QY 1119 TGTGATCATGCTTGGTGTGTTTAAAGTTCTTTGGAGTGAAGTGTACTGAATTAAGTCTCA 1178
DB 60 nValIleMetValLeuValPheLysPhe**GlyValLysVal**LeuAsnTyrCysHi 80
QY 1179 TTCCTTGATTGCTTGCAGCTCATTTATCTTATCTGATTTCCATTGGCTTCATGCTCCT 1238
DB 80 s**Leu**AlaLeuGlnLeuIleAlaTyrLeuIleSerIleGlyPheMetLeuLe 100
QY 1239 TTTCTTCAGTACTTGCATCCATTGGCTCCTACTCTTCACCCCAATAGTAGTACACCT 1298
DB 100 uPhePheGlnTyrLeuHisProLeuArgSerLeuPheThrHisAsnValValAspTyrLe 120
QY 1299 CCATTGTGTCGCTGT 1314
DB 120 uHisCysValCysCys 125
```

RESULT 4  
 ABB27443  
 ID ABB27443 standard; Peptide; 216 AA.  
 XX  
 AC ABB27443;  
 XX  
 DT 01-FEB-2002 (first entry)  
 XX  
 DE Human peptide #94 encoded by breast cell single exon nucleic acid probe.  
 XX  
 KW Human; microarray; single exon probe; gene expression; breast;  
 disease; cancer.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200157271-A2.  
 XX  
 PD 09-AUG-2001.  
 XX  
 PF 30-JAN-2001; 2001WO-US00662.  
 XX  
 PR 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-0236359.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 XX  
 PI Penn SG, Hanzel DK, Chen W, Rank DR;  
 XX  
 DR WPI; 2001-496933/54.  
 XX  
 PT New spatially-addressable set of single exon nucleic acid probes,  
 useful for measuring gene expression in sample derived from human  
 breast, comprises number of single exon nucleic acid probes -  
 XX  
 PS Claim 27; SEQ ID NO 10411; 327pp + sequence listing; English.  
 XX  
 CC The invention relates to a spatially-addressable set of single exon  
 nucleic acid probes for measuring gene expression in a sample derived  
 from human breast and BT 474 cells. The method involves contacting  
 the probes with a collection of detectably labelled nucleic acids  
 derived from mRNA of human breast, and then measuring the label  
 bound to each probe of the microarray. The probes are useful for  
 verifying the expression of regions of genomic DNA predicted to  
 encode proteins. They are useful for gene discovery, and for  
 determining predisposition and/or prognosing breast disease. Gene  
 expression analysis is useful for assessing the toxicity of chemical  
 agents on cells. The microarray of this invention presents a far greater  
 diversity of probes for measuring gene expression, with far less bias  
 than expressed sequence tag microarrays. The method is suitable for  
 rapid production of functional information from genomic sequence. The  
 present sequence is a peptide encoded by a single exon nucleic acid  
 probe of the invention.  
 CC Note: The sequence data for this patent did not form part of the  
 printed specification, but was obtained in electronic format directly  
 from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
 XX  
 SQ Sequence 216 AA;  
 Alignment Scores:  
 Pred. No.: 9,24e-59 Length: 216  
 Score: 614.00 Matches: 110  
 Percent Similarity: 76.77% Conservative: 42  
 Best Local Similarity: 55.56% Mismatches: 46  
 Query Match: 24.14% Indels: 0  
 DB: 22 Gaps: 0  
 US-09-768-781-2 (1-1389) x ABB27443 (1-216)

QY 676 ACCTATGGGGCCACCCCTTTTGCATATGCTTGGCTATCCAGATCAAGTACGACTACAAAG 735  
 DB 1 ThrTyGlyAlaIleArgCysAsnIleLeuAlaIleGlnIleSerAsnAspThrThr 20  
 QY 736 ATTGCGCTTGGCCACTAGAAAGTCCTCTGCATCACCATCTGGCGGACATTTGGAGATCACT 795  
 DB 21 IleLeuLeuProIleGluPhePheCysValValMetTrpArgPheLeuGluValIle 40  
 QY 796 TCCGGCTCTCTGATTTCTGGTCTCTCTCAGCCACTTTGAAATTGAAGGCTGTCGCCCTTC 855  
 DB 41 SerArgValValThrLeuAlaPhePheIleAlaSerLeuLysLeuLysSerLeuProVal 60  
 QY 856 CTAGTGTCTCAACTTCTCTGATCATCTCTTTGAGCCCTGGATTAGTTCCTGAGAGAGTGT 915  
 DB 61 LeuLeuIleIleIleTyPheValSerLeuLeuAlaProIlePheGluPheTrpLysSerGly 80  
 QY 916 GCCAGATGCCCAATAACATTGAGAAAACTTTCAGCGGGTGGGCACTCTGTGGTGTCTG 975  
 DB 81 AlaHisLeuProGlyAsnLysGluAsnAsnSerAsnMetValGlyThrValLeuMetLeu 100  
 QY 976 ATTTCAGTCACCATCTCTATGCTGGCATCAACTTCTTCTGCTGCTGCTGCTGCTGCTG 1035  
 DB 101 PheLeuIleThrLeuLeuTyAlaAlaIleAsnPheSerCysTrpSerAlaValLysLeu 120  
 QY 1036 AGCTTGGCAGACAGATCTCTGCGACAAAGGGCAGACACTGGGGACATATGGGCTGCAC 1095  
 DB 121 GlnLeuSerAspAspLysIleIleAspGlyArgGlnArgTrpGlyHisArgIleLeuHis 140  
 QY 1096 TATAGTGTGAGTTGGTAGAGAATGTGATCATGCTCTTGGTTTAAAGTCTTTGGAGTG 1155  
 DB 141 TyrSerPheGlnPheLeuGluAsnValIleMetIleLeuValPheArgPheGlyGly 160  
 QY 1156 AAAGTGTACTGAATTACTGTCTATTCTTGAATTCCTGCTGCTGCTGCTGCTGCTGCTG 1215  
 DB 161 LysThrLeuLeuAsnCysCysAspSerLeuIleAlaValGlnLeuIleIleSerTyLeu 180  
 QY 1216 ATTTCCATGGCTTCATGCTCTCTTTCTTCCAGTACTTGCATCCATTCGCTCA 1269  
 DB 181 LeuAlaThrGlyPheMetLeuLeuPheTyGlnTyLeuTyProTrpGlnSer 198  
 RESULT 5  
 ABB32592  
 ID ABB32592 standard; Peptide; 216 AA.  
 XX  
 AC ABB32592;  
 XX  
 DT 01-FEB-2002 (first entry)  
 XX  
 DE Peptide #98 encoded by human foetal liver single exon nucleic acid probe.  
 XX  
 KW Human; foetal liver; gene expression; single exon nucleic acid probe.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200157277-A2.  
 XX  
 PD 09-AUG-2001.  
 XX  
 PF 30-JAN-2001; 2001WO-US00669.  
 XX  
 PR 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-0236359.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 XX  
 PI Penn SG, Hanzel DK, Chen W, Rank DR;  
 XX  
 DR WPI; 2001-496933/54.  
 XX  
 PT New spatially-addressable set of single exon nucleic acid probes,  
 useful for measuring gene expression in sample derived from human  
 breast, comprises number of single exon nucleic acid probes -  
 XX  
 PS Claim 27; SEQ ID NO 10411; 327pp + sequence listing; English.  
 XX  
 CC The invention relates to a spatially-addressable set of single exon  
 nucleic acid probes for measuring gene expression in a sample derived  
 from human breast and BT 474 cells. The method involves contacting  
 the probes with a collection of detectably labelled nucleic acids  
 derived from mRNA of human breast, and then measuring the label  
 bound to each probe of the microarray. The probes are useful for  
 verifying the expression of regions of genomic DNA predicted to  
 encode proteins. They are useful for gene discovery, and for  
 determining predisposition and/or prognosing breast disease. Gene  
 expression analysis is useful for assessing the toxicity of chemical  
 agents on cells. The microarray of this invention presents a far greater  
 diversity of probes for measuring gene expression, with far less bias  
 than expressed sequence tag microarrays. The method is suitable for  
 rapid production of functional information from genomic sequence. The  
 present sequence is a peptide encoded by a single exon nucleic acid  
 probe of the invention.  
 CC Note: The sequence data for this patent did not form part of the  
 printed specification, but was obtained in electronic format directly  
 from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
 XX  
 SQ Sequence 216 AA;  
 Alignment Scores:  
 Pred. No.: 9,24e-59 Length: 216  
 Score: 614.00 Matches: 110  
 Percent Similarity: 76.77% Conservative: 42  
 Best Local Similarity: 55.56% Mismatches: 46  
 Query Match: 24.14% Indels: 0  
 DB: 22 Gaps: 0  
 US-09-768-781-2 (1-1389) x ABB27443 (1-216)

DR WPI; 2001-483447/52.  
XX Human genome-derived single exon nucleic acid probes useful for  
PT analyzing gene expression in human fetal liver -  
XX  
XX Claim 27; SEQ ID NO 25227; 639pp + sequence listing; English.  
XX  
CC The invention relates to a single exon nucleic acid probe for  
CC measuring human gene expression in a sample derived from human foetal  
CC liver. The single exon nucleic acid probes may be used for predicting,  
CC measuring and displaying gene expression in samples derived from human  
CC foetal liver. The present sequence is a peptide encoded by a single exon  
CC nucleic acid probe of the invention.  
CC Note: The sequence data for this patent did not form part of the  
CC printed specification, but was obtained in electronic format directly  
CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 216 AA;  
  
Alignment Scores:  
Pred. No.: 9.24e-59 Length: 216  
Score: 614.00 Matches: 110  
Percent Similarity: 76.77% Conservative: 42  
Best Local Similarity: 55.56% Mismatches: 46  
Query Match: 24.14% Indels: 0  
DB: 22 Gaps: 0  
  
US-09-768-781-2 (1-1389) x ABB32592 (1-216)  
Qy 676 ACCTATGGGGCCACCTTTGGCAATATGTTGGCTATCCAGATCAAGTACGACTACAAAG 735  
Db 1 ThrTyGlyAlaIleArgCysAsnIleLeuAlaIleGlnIleSerAsnAspThrThr 20  
Qy 736 ATTCGCCTTGGCCACTAGAAGTCTCTGCATCACCATCTGCGGACATTTGGAGATCACT 795  
Db 21 IleLysLeuProIleGluPheCysValMetTrpArgPheLeuGluValIle 40  
Qy 796 TCCGCGCTCTGATTCGTGCTCTTCTCAGCCACTTTGAATTAAGGCTGTCGCTTC 855  
Db 41 SerArgValThrLeuAlaPhePheIleAlaSerLeuLysLeuLysSerLeuProVal 60  
Qy 856 CTAGTGCTCAACTCTCTGATCATCTCTTTAGCCCTGATTAAGTCTGGAAGATGGT 915  
Db 61 LeuLeuIleIleTyPheValSerLeuLeuAlaProTrpLeuGluPheTrpLysSerGly 80  
Qy 916 GCCCAGATGCCCAATACATTGAGAAAACCTTCAGCCGGTGGGCACTCTGTGTGCTCTG 975  
Db 81 AlaHisLeuProGlyAsnLysGluAsnSerAsnMetValGlyThrValLeuMetLeu 100  
Qy 976 ATTTCCAGTCACCATCTCTATCTGCGCATCAACTCTCTGCTGCTGCTGCTGCTGCTG 1035  
Db 101 PheLeuIleThrLeuLeuTyAlaAlaIleAsnPheSerCysTrpSerAlaValLysLeu 120  
Qy 1036 AGCTTGGCAGACAGATCTCTCGCAAAAGGCGAGAACTGGGGACATATGGCCCTGCAC 1095  
Db 121 GlnLeuSerAspLysIleIleAspGlyArgGlnArgTrpGlyHisArgIleLeuHis 140  
Qy 1096 TATAGTGTGAGTGGTAGAAGATGATGATGCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 1155  
Db 141 TyrSerPheGlnPheLeuGluAsnValIleMetIleLeuValPheArgPheGlyGly 160  
Qy 1156 RAAGTGTACTCAATTAATCTATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1215  
Db 161 LysThrLeuLeuAsnCysAspSerLeuIleAlaValGlnLeuIleIleSerTyLeu 180  
Qy 1216 ATTTCCATGGCTTCATGCTCTCTTTTCCAGTACTTCATCCATTCATTCATTCATTC 1269  
Db 181 LeuAlaThrGlyPheMetLeuLeuPheTyGlnTyLeuTyProTrpIleSer 198  
  
RESULT 6  
ABB18089  
ID ABB18089 standard; Protein; 216 AA.  
XX

AC ABB18089;  
XX  
DT 23-JAN-2002 (first entry)  
XX  
DE Protein #88 encoded by probe for measuring heart cell gene expression.  
XX  
KW Human; gene expression; heart; microarray; vascular system;  
KW cardiovascular disease; hypertension; cardiac arrhythmia;  
XX congenital heart disease.  
OS Homo sapiens.  
XX  
PN WO200157274-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 30-JAN-2001; 2001WO-US006666.  
XX  
PR 04-FEB-2000; 2000US-0180312.  
PR 26-MAY-2000; 2000US-0207456.  
PR 30-JUN-2000; 2000US-0608408.  
PR 03-AUG-2000; 2000US-0632366.  
PR 21-SEP-2000; 2000US-0234687.  
PR 27-SEP-2000; 2000US-0236359.  
PR 04-OCT-2000; 2000GB-0024263.  
XX  
PA (MOLE-) MOLECULAR DYNAMICS INC.  
XX  
PI Penn SG, Hanzel DK, Chen W, Rank DR;  
XX  
XX WPI; 2001-488899/53.  
XX  
PT Single exon nucleic acid probes for analyzing gene expression in human  
PT hearts -  
XX  
PS Claim 15; SEQ ID No 19859; 530pp; English.  
XX  
CC The present invention relates to single exon nucleic acid probes for  
CC measuring human gene expression in a sample derived from human heart (see  
CC AB21335-ABA1305). The present sequence is a protein encoded by one such  
CC probe. The probes may be used for predicting, measuring and displaying  
CC gene expression in samples derived from the human heart via microarrays.  
CC By measuring gene expression, the probes are useful for predicting,  
CC diagnosing, grading, staging, monitoring and prognosing diseases of the  
CC human heart and vascular system e.g. cardiovascular disease.  
CC hypertension, cardiac arrhythmias and congenital heart disease.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 216 AA;  
  
Alignment Scores:  
Pred. No.: 9.24e-59 Length: 216  
Score: 614.00 Matches: 110  
Percent Similarity: 76.77% Conservative: 42  
Best Local Similarity: 55.56% Mismatches: 46  
Query Match: 24.14% Indels: 0  
DB: 22 Gaps: 0  
  
US-09-768-781-2 (1-1389) x ABB18089 (1-216)  
Qy 676 ACCTATGGGGCCACCTTTGGCAATATGTTGGCTATCCAGATCAAGTACGACTACAAAG 735  
Db 1 ThrTyGlyAlaIleArgCysAsnIleLeuAlaIleGlnIleSerAsnAspThrThr 20  
Qy 736 ATTCGCCTTGGCCACTAGAAGTCTCTGCATCACCATCTGCGGACATTTGGAGATCACT 795  
Db 21 IleLysLeuProIleGluPheCysValMetTrpArgPheLeuGluValIle 40  
Qy 796 TCCGCGCTCTGATTCGTGCTCTTCTCAGCCACTTTGAATTAAGGCTGTCGCTTC 855  
Db 41 SerArgValThrLeuAlaPhePheIleAlaSerLeuLysLeuLysSerLeuProVal 60







```
QY 676 ACCTATGGGGCCACCCCTTTGCAATATGTTGGCTATCCAGATCAAGTACGACTACAAG 735
Db 1 ThrTyrGlyAlaIleArgCysAsnIleLeuAlaIleGlnIleSerAsnAspAspThrThr 20
QY 736 ATTTCGGCTTGGGCGCATTAGAGTCTCTGATCACCATCTGGCGGACATTGGAGATCACT 795
Db 21 IleLysLeuProPheGluPhePheCysValValMetTrpArgPheLeuGluValIle 40
QY 796 TCCCGCTCTCTGATTCCTGCTCTCTCAGCCACTTTGAAATTTAGAGGTGTCCTTC 855
Db 41 SerArgValValThrLeuAlaPhePheIleAlaSerLeuLysLeuSerLeuProVal 60
QY 856 CTAGTGTCAACTTCTTGATCATCTCTTTGAGCCCTGGATTAACTTCTGAGAGTGGT 915
Db 61 LeuLeuIleIleTyrPheValSerLeuLeuAlaProTrpLeuGluPheTrpLysSerGly 80
QY 916 GCCAGATGCCCAATACATTGAGAAAACCTTACGCCGGTTCGACATCTGGTGGTCTG 975
Db 81 AlaHisLeuProGlyAsnLysGluAsnAsnSerAsnMetValGlyThrValLeuMetLeu 100
QY 976 ATTTCAGTCACTCTCTATGCTGGCATCACTTCTTCTGCTGGTCACTTTCAGCTTG 1035
Db 101 PheLeuIleThrLeuLeuTyrAlaAlaIleAsnPheSerCysTrpSerAlaValLysLeu 120
QY 1036 AGTGTGGCAGACAGATCTCGTCGACAAAGGGCAGAACTGGGGACATATGGGCTGCAC 1095
Db 121 GlnLeuSerAspLysIleIleAspGlyArgGlnArgTrpGlyHisArgIleLeuHis 140
QY 1096 TATAGTGTGAGGTGGTAGAATGTGATCGTCTCTTTGAGCCCTGGATTAACTTCTG 1155
Db 141 TyrSerPheGlnPheLeuGluAsnValIleMetIleLeuValPheArgPheGlyGly 160
QY 1156 AAGTGTCTTGAATTAATCTCTCTGATTCCTTCTCAGCTTCTGCTGCTGCTGCTCA 1215
Db 161 LeuAlaThrGlyPheMetLeuLeuPheTyrGlnTyrLeuTyrProTrpGlnSer 198

RESULT 10
AAM26060
ID AAM26060 standard; Protein; 216 AA.
XX
AC AAM26060;
XX
DT 17-OCT-2001 (first entry)
DE Peptide #97 encoded by probe for measuring placental gene expression.
KW Probe; microarray; human; placenta; antenatal diagnosis;
KW genetic disorder.
OS Homo sapiens.
XX
FN WO200157272-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US000663.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
(PMOLE-) MOLECULAR DYNAMICS INC.
PA
XX Penn SG, Hanzel DK, Chen W, Rank DR;
PI
```

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XX
DR WPI; 2001-488897/53.
XX
PT Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human placenta -
XX
PS Claim 27; SEQ ID No 26329; 654bp; English.
XX
CC The present invention relates to single exon nucleic acid probes (SENP;
CC see AAL1315-AA157546). The present sequence is a peptide encoded by one
CC such probe. The probes are useful for producing a microarray for
CC predicting, measuring and displaying gene expression in samples derived
CC from human placenta. The probes are useful for antenatal diagnosis of
CC human genetic disorders.
XX
SQ Sequence 216 AA;

Alignment Scores:
Pred. No.: 9,24e-59 Length: 216
Score: 614.00 Matches: 110
Percent Similarity: 76.77% Conservative: 42
Best Local Similarity: 55.56% Mismatches: 46
Query Match: 24.14% Indels: 0
DB: Gaps: 0

US-09-768-781-2 (1-1389) x AAM26060 (1-216)
QY 676 ACCTATGGGGCCACCCCTTTGCAATATGTTGGCTATCCAGATCAAGTACGACTACAAG 735
Db 1 ThrTyrGlyAlaIleArgCysAsnIleLeuAlaIleGlnIleSerAsnAspAspThrThr 20
QY 736 ATTTCGGCTTGGGCGCATTAGAGTCTCTGATCACCATCTGGCGGACATTGGAGATCACT 795
Db 21 IleLysLeuProPheGluPhePheCysValValMetTrpArgPheLeuGluValIle 40
QY 796 TCCCGCTCTCTGATTCCTGCTCTCTCAGCCACTTTGAAATTTAGAGGTGTCCTTC 855
Db 41 SerArgValValThrLeuAlaPhePheIleAlaSerLeuLysLeuSerLeuProVal 60
QY 856 CTAGTGTCAACTTCTTGATCATCTCTTTGAGCCCTGGATTAACTTCTGAGAGTGGT 915
Db 61 LeuLeuIleIleTyrPheValSerLeuLeuAlaProTrpLeuGluPheTrpLysSerGly 80
QY 916 GCCAGATGCCCAATACATTGAGAAAACCTTACGCCGGTTCGACATCTGGTGGTCTG 975
Db 81 AlaHisLeuProGlyAsnLysGluAsnAsnSerAsnMetValGlyThrValLeuMetLeu 100
QY 976 ATTTCAGTCACTCTCTATGCTGGCATCACTTCTTCTGCTGGTCACTTTCAGCTTG 1035
Db 101 PheLeuIleThrLeuLeuTyrAlaAlaIleAsnPheSerCysTrpSerAlaValLysLeu 120
QY 1036 AGTGTGGCAGACAGATCTCGTCGACAAAGGGCAGAACTGGGGACATATGGGCTGCAC 1095
Db 121 GlnLeuSerAspLysIleIleAspGlyArgGlnArgTrpGlyHisArgIleLeuHis 140
QY 1096 TATAGTGTGAGGTGGTAGAATGTGATCGTCTCTTTGAGCCCTGGATTAACTTCTG 1155
Db 141 TyrSerPheGlnPheLeuGluAsnValIleMetIleLeuValPheArgPheGlyGly 160
QY 1156 AAGTGTCTTGAATTAATCTCTGATTCCTTCTCAGCTTCTGCTGCTGCTGCTCA 1215
Db 161 LysThrLeuLeuAsnCysCysAspSerLeuIleAlaValGlnLeuIleIleSerTyrLeu 180
QY 1216 ATTTCCATGGCTTCATGCTCTCTTTCTCCAGTACTTGCATTCATTCGCGCTCA 1269
Db 181 LeuAlaThrGlyPheMetLeuLeuPheTyrGlnTyrLeuTyrProTrpGlnSer 198

RESULT 11
AAM01411
ID AAM01411 standard; Protein; 216 AA.
XX
AC AAM01411;
XX
```

## 09-OCT-2001 (first entry)

Peptide #93 encoded by probe for measuring human breast gene expression.  
Probe; human; breast disease; breast cancer; development disorder;  
inflammatory disease; proliferative breast disease; non-carcinoma tumour.

Homo sapiens.

WO200157270-A2.

09-AUG-2001.

29-JAN-2001; 2001WO-US00661.

04-FEB-2000; 2000US-0180312.

26-MAY-2000; 2000US-0207456.

30-JUN-2000; 2000US-0608408.

03-AUG-2000; 2000US-0632366.

21-SEP-2000; 2000US-0234687.

27-SEP-2000; 2000US-0236359.

04-OCT-2000; 2000GB-0024263.

(MOLE-) MOLECULAR DYNAMICS INC.

Penn SG, Hanzel DK, Chen W, Rank DR;

WPI; 2001-476286/51.

Novel single exon nucleic acid probe used to measuring gene expression  
in a human breast -

Claim 27; SEQ ID No 10151; 322pp; English.

The present invention relates to novel single exon nucleic acid probes  
(see AAI00010-AA110067). The present sequence is a peptide encoded by one  
such probe. The probes are useful for measuring human gene expression in  
a human breast sample, where the probe hybridizes at high stringency to a  
nucleic acid expressed in the human breast. The probes are useful for  
predicting, diagnosing, grading, staging, monitoring and prognosing  
diseases of the human breast, particularly those diseases with polygenic  
aetiology. The diseases include: breast cancer, disorders of development,  
inflammatory diseases of the breast, fibrocystic changes, proliferative  
breast disease and non-carcinoma tumours.

Note: The sequence data for this patent did not form part of the printed  
specification, but was obtained in electronic format directly from WIPO  
at ftp.wipo.int/pub/published\_pct\_sequences.

SQ Sequence 216 AA;

## Alignment Scores:

Pred. No.:	9,248-59	Length:	216
Score:	614.00	Matches:	110
Percent Similarity:	76.77%	Conservative:	42
Best Local Similarity:	55.56%	Mismatches:	46
Query Match:	24.14%	Indels:	0
DB:	22	Gaps:	0

US-09-768-781-2 (1-1389) x AAM01411 (1-216)

Qy 676 ACCTATGGGGCCACCCTTTGGCATATGTTGGCTATCCAGATCAAGTACGATCAAG 735

Db 1 ThrTyrglyAlaIleArgCysAsnIleLeuAlaIleGlnIleSerAsnAspAepThrThr 20

Qy 736 ATTGGCTTTGGGCACTAGAGTCTCTGCATCACCATTCTGGCGGACATTGGAGATCACT 795

Db 21 IleLeuLeuProIleGluPhePheCysValValMetTrpArgPheLeuGluValIle 40

Qy 796 TCCGGCTCTGATTTCTGGTCTCTCTAGCCACTTTGAAATGAAGGTGGCCCTTC 855

Db 41 SerArgValValThrLeuAlaPhePheIleAlaSerLeuLeuLeuLeuSerLeuProVal 60

Qy 856 CTAGTGCTCAACTCTCTGATCATCTCTTTGAGCCCTGGATTAAAGTTCTGGAGAGTGGT 915

Db 61 LeuLeuIleIleTyrrPheValSerLeuLeuAlaProTrpLeuGluPheTrpLysSerGly 80  
Qy 916 GCCAGATGCCCAATAACATTGAGAAAACCTTCAGCCGGTGGCACTCTGGTGGTCTG 975  
Db 81 AlaHisLeuProGlyAsnLysGluAsnAsnSerAsnMetValGlyThrValLeuMetLeu 100  
Qy 976 ATTTGAGTCACCATCTCTATGCTGGCATCACTTCTCTTGTGGTTCAGCTTTGCAAGTTG 1035  
Db 101 PheLeuIleThrLeuLeuTyrrAlaAlaIleAsnPheSerCysTrpSerAlaValLysLeu 120  
Qy 1036 AGTTGGCAGACAGAGATCTCTGCACAAAGGCGACAACTGGGACATATGGCCCTGCAC 1095  
Db 121 GlnLeuSerAspAspLysIleIleAspGlyArgGlnArgTrpGlyHisArgIleLeuHis 140  
Qy 1096 TATAGTGTGAGGTGTGTAGAGAAATGTGATCGTCTTGGTCTTAAAGTTCTTTGAGTG 1155  
Db 141 TyrSerPheGlnPheLeuGluAsnValIleMetIleLeuValPheArgPheGlyGly 160  
Qy 1156 AAAGTGTACTGAATTAATCTCTTCTTGTATTCCTTGTGCTTCAGCTCAATTTGCTTATCTG 1215  
Db 161 LysThrLeuLeuAsnCysCysAspSerLeuIleAlaValGlnLeuIleIleSerTyrLeu 180  
Qy 1216 ATTTCAATGGCTTCATGCTCTCTTCTTCCAGTACTTGCATCCATTCGCTCA 1269  
Db 181 LeuAlaThrGlyPheMetLeuLeuPheTyrrGlnTyrrLeuTyrrProTrpGlnSer 198

## RESULT 12

ABG35433

ID ABG35433 standard; Peptide; 216 AA.

XX AC ABG35433;

XX DT 19-AUG-2002 (first entry)

Human peptide encoded by genome-derived single exon probe SEQ ID 25098.  
Human; single exon probe; asthma; lung cancer; COPD; ILD;  
chronic obstructive pulmonary disease; interstitial lung disease;  
familial idiopathic pulmonary fibrosis; neurofibromatosis;  
tuberosus sclerosis; Gaucher's disease; Niemann-Pick disease;  
Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis;  
pulmonary histiocytosis; lymphangioleiomyomatosis; Karagenen syndrome;  
pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;  
primary ciliary dyskinesia; pulmonary hypertension;  
hyaline membrane disease.

XX OS Homo sapiens.

XX PN WO200186003-A2.

XX PD 15-NOV-2001.

XX PF 30-JAN-2001; 2001WO-US00665.

XX PR 04-FEB-2000; 2000US-180312P.

XX PR 26-MAY-2000; 2000US-207456P.

XX PR 30-JUN-2000; 2000US-0608408.

XX PR 03-AUG-2000; 2000US-0632366.

XX PR 21-SEP-2000; 2000US-234687P.

XX PR 27-SEP-2000; 2000US-236359P.

XX PR 04-OCT-2000; 2000GB-0024263.

XX PA (MOLE-) MOLECULAR DYNAMICS INC.

XX PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2002-114183/15.

XX Spatially-addressable set of single exon nucleic acid probes, used to

XX PT measure gene expression in human lung samples -

XX Claim 27; SEQ ID No 25098; 634pp; English.

XX The invention relates to a spatially-addressable set of single exon  
CC nucleic acid probes for measuring gene expression in a sample derived  
CC from human lung comprising single exon nucleic acid probes having one of  
CC 12614 nucleic acid sequences mentioned in the specification, or their  
CC complements or the 12387 open reading frames derived from the 12614  
CC probes. Also included are a microarray comprising the novel set of  
CC probes; the novel set of probes which hybridize at high stringency to a  
CC nucleic acid expressed in the human lung; measuring gene expression in a  
CC sample derived from human lung, comprising (a) contacting the array with  
CC a collection of detectably labeled nucleic acids derived from human lung  
CC mRNA, and (b) measuring the label detectably bound to each probe of  
CC the array; identifying exons in a eukaryotic genome, comprising  
CC (a) algorithmically predicting at least one exon from genomic sequences  
CC of the eukaryote; and (b) detecting specific hybridization of detectably  
CC labeled nucleic acids from eukaryotic lung mRNA, to a single exon probe,  
CC having a fragment identical to the predicted exon, the probe is included  
CC in the above mentioned microarray; assigning exons to a single gene,  
CC comprising (a) identifying exons from genomic sequence by the method  
CC above and (b) measuring the expression of each of the exons in several  
CC tissues and/or cell types using hybridization to a single exon  
CC microarrays having a probe with the exon, where a common pattern of  
CC expression of the exons in the tissues and/or cell types indicates that  
CC the exons should be assigned to a single gene; a peptide comprising one  
CC of 12011 sequences, mentioned in the specification, or encoded by the  
CC probes/open reading frames (ORF). The probes are used for gene  
CC expression analysis, and for identifying exons in a gene, particularly  
CC using human lung derived mRNA and for the study of lung diseases  
CC such as asthma, lung cancer, chronic obstructive pulmonary disease  
CC (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary  
CC fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,  
CC Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary  
CC haemosiderosis, pulmonary histiocytosis, lymphangioleiomyomatosis,  
CC pulmonary alveolar proteinosis, Karagener syndrome, fibrocystic  
CC and hyaline membrane disease. The present sequence is a peptide/protein  
CC encoded by a single exon probe of the invention.  
CC Note: The sequence data for this patent did not form part  
CC of the printed specification, but was obtained in electronic  
CC format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences.

XX SQ Sequence 216 AA;

Alignment Scores:  
Pred. No.: 9,248-59 Length: 216  
Score: 614.00 Matches: 110  
Percent Similarity: 76.77% Conservative: 42  
Best Local Similarity: 55.56% Mismatches: 46  
Query Match: 24.14% Indels: 0  
DB: 23 Gaps: 0

US-09-768-781-2 (1-1389) x ABG35433 (1-216)

QY 676 ACCTATGGGGCCACCTTTGATATGTTGGTATCCAGATCAAGTACGATCACTACAG 735  
Db 1 ThrTrGlyAlaileArgCysanlleleuAlaileGlnleSerAsnAspThrThr 20  
QY 736 ATTCGCTTGGGCGCCACTAGAACTCTCTCATCACCATCTGGCGGACATGGAGATCACT 795  
Db 21 IleuLeuProIleleuPhePheCysValValMetTrpArgPheleuGluValle 40  
QY 796 TCCGCGCTCTGATCTGTGTCTTCTCAGGCACCTTGAATTAAGCTGTGCGCTTC 855  
Db 41 SerArgValValThrLeuAlaPhePheleuAlaSerLeuLysLeuLysSerLeuProVal 60  
QY 856 CTAGTGCTCACTCTGATCATCTCTTGGCCCTGATTAAGTTCGAGAGAGTGT 915  
Db 61 LeuLeuIleleuTyPheValSerLeuLeuAlaProTrpLeuGluPheTrpLysSerGly 80  
QY 916 GCCAGATGCCCAATACATTCAGAAAACCTTCAGCGGCTGGGCACTCTGGTGTCTG 975  
Db 81 AlaHisLeuProGlyAsnLysGluAsnSerAsnMetValGlyThrValleuMetLeu 100

QY 976 ATTACGTACCATCTCTATCTGCGATCAACTTCTTGTGCTGCTGCTGCTGCTG 1035  
Db 101 PheLeuIleThrLeuLeuTyAlaAlaileAsnPheSerCysTrpSerAlaValLysLeu 120  
QY 1036 AGTTGGCAGACAGATCTCGTCGACAAAGGCGAGAACTGGGGACATATGGGCTGCAC 1095  
Db 121 GlnLeuSerAspAspLysIleleuAspGlyArgGlnArgTrpGlyHisArgIleLeuHis 140  
QY 1096 TATAGTGTGAGTGTGTAGAGAAATGATCATGCTTGTGTTTAAAGTCTTTTGGAGTG 1155  
Db 141 TyrSerPheGlnPheLeuGluAsnValIleMetIleLeuValPheArgPheGlyGly 160  
QY 1156 AAAGTGTACTCAATCTACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1215  
Db 161 LysThrLeuLeuAsnCysCysAspSerLeuIleAlaValGlnLeuIleleuSerTyLeu 180  
QY 1216 ATTTCATTTGGCTTCTATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCA 1269  
Db 181 LeuAlaThrGlyPheMetLeuLeuPheTyGlnTyLeuTyTrpTrpGlnSer 198

RESULT 13

ABB22596

ID ABB22596 standard; Protein; 128 AA.

AC ABB22596;

DT 23-JAN-2002 (first entry)

XX Protein #4595 encoded by probe for measuring heart cell gene expression.  
DE Human; gene expression; heart; microarray; vascular system;  
XX Cardiovascular disease; hypertension; cardiac arrhythmia;  
KW congenital heart disease.  
XX Homo sapiens.

OS WO200157274-A2.

PN 09-AUG-2001.

PD 30-JAN-2001; 2001WO-US00666.

PF 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0623266.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

PA Penn SG, Hanzel DK, Chen W, Rank DR;

PI WPI; 2001-488899/53.

XX Single exon nucleic acid probes for analyzing gene expression in human hearts -  
PS Claim 15; SEQ ID No 24366; 530pp; English.

XX The present invention relates to single exon nucleic acid probes for  
CC measuring human gene expression in a sample derived from human heart (see  
CC ABA21535-ABA41305). The present sequence is a protein encoded by one such  
CC probe. The probes may be used for predicting, measuring and displaying  
CC gene expression in samples derived from the human heart via microarrays.  
CC By measuring gene expression, the probes are useful for predicting,  
CC diagnosing, grading, staging, monitoring and prognosing diseases of the  
CC human heart and vascular system e.g. cardiovascular disease,  
CC hypertension, cardiac arrhythmias and congenital heart disease.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO

CC at ftp.wipo.int/pub/published\_pct\_sequences.

SQ Sequence 128 AA;

Alignment Scores:

Pred. No.: 7,34e-31 Length: 128  
Score: 361.00 Matches: 66  
Percent Similarity: 81.65% Conservative: 23  
Best Local Similarity: 60.55% Mismatches: 20  
Query Match: 14.20% Indels: 0  
DB: 22 Gaps: 0

US-09-768-781-2 (1-1389) x ABB22596 (1-128)

Qy 943 AAC TTCAGCCGGGTCGGCAGCTCTGGTGTCTGATTTCAGTCACCATCTCTATGCTGGC 1002

Db 2 AenSerAenMetValGlyThrValLeuMetLeuPheLeuIleThrLeuLeuTyrAlaAla 21

Qy 1003 ATCAACTCTCTTGTGTGTGCTTTCAGCTTTGCGAGTTGAGGTGGCAGACAGAGATCTCGTCGAC 1062

Db 22 IleAenPheSerCysTrpSerAlaValLysLeuGlnLeuSerAspLysIleIleAsp 41

Qy 1063 AAAGGCGAGAACTGGGACATATGGCCTGCACATATAGTGTGAGGCTGGTAGAGATGTG 1122

Db 42 GlyArgGlnArgTrpGlyHisArgIleLeuHisTyrSerPheGlnPheLeuGluAsnVal 61

Qy 1123 ATCATGGTCTTGGTGTGTTTAAAGTTCTTTCGGAGTGAAGTGTACTGAATTACTGTCTATCC 1182

Db 62 IleMetIleLeuValPheArgPheGlyGlyLysThrLeuLeuAsnCysCysAspSer 81

Qy 1183 TTGATTGCTTGCAGCTCATTTATGCTTATCTGATTTCATTGGCTTCATGCTCCTTTTC 1242

Db 82 LeuIleAlaValGlnLeuIleSerTyrLeuLeuAlaThrGlyPheMetLeuLeuPhe 101

Qy 1243 TTCAGTACTTGCATCCATTCGCTCA 1269

Db 102 TyrGlnTyrLeuTyrProTrpGlnSer 110

RESULT 14

AAM58002

ID AAM58002 standard; Protein; 128 AA.

XX AC AAM58002;

XX DT 05-NOV-2001 (first entry)

XX DE Human brain expressed single exon probe encoded protein SEQ ID NO: 30107.

XX KW Human; brain expressed exon; gene expression analysis; probe;

XX KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;

XX KW epilepsy; cancer.

XX OS Homo sapiens.

XX PN WO200157275-A2.

XX PD 09-AUG-2001.

XX PF 30-JAN-2001; 2001WO-US00667.

XX PR 04-FEB-2000; 2000US-0180312.

XX PR 26-MAY-2000; 2000US-0207456.

XX PR 30-JUN-2000; 2000US-0608408.

XX PR 03-AUG-2000; 2000US-0632366.

XX PR 21-SEP-2000; 2000US-0234687.

XX PR 27-SEP-2000; 2000US-0236359.

XX PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-483446/52.

XX DR

XX Single exon nucleic acid probes for analyzing gene expression in human  
PT brains -

XX Example 4; SEQ ID NO: 30107; 650pp + Sequence Listing; English.

XX The present invention provides a number of single exon nucleic acid  
CC probes which are derived from genomic sequences expressed in the human  
CC brain. They can be used to measure gene expression in brain cell samples,  
CC which may enable the diagnosis and improved treatment of nervous system  
CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia, of  
CC epilepsy and cancers. The present sequence is a protein encoded by one of  
CC the probes of the invention.

XX SQ Sequence 128 AA;

Alignment Scores:

Pred. No.: 7,34e-31 Length: 128  
Score: 361.00 Matches: 66  
Percent Similarity: 81.65% Conservative: 23  
Best Local Similarity: 60.55% Mismatches: 20  
Query Match: 14.20% Indels: 0  
DB: 22 Gaps: 0

US-09-768-781-2 (1-1389) x AAM58002 (1-128)

Qy 943 AAC TTCAGCCGGGTCGGCAGCTCTGGTGTCTGATTTCAGTCACCATCTCTATGCTGGC 1002

Db 2 AenSerAenMetValGlyThrValLeuMetLeuPheLeuIleThrLeuLeuTyrAlaAla 21

Qy 1003 ATCAACTCTCTTGTGTGTGCTTTCAGCTTTGCGAGTTGAGGTGGCAGACAGAGATCTCGTCGAC 1062

Db 22 IleAenPheSerCysTrpSerAlaValLysLeuGlnLeuSerAspLysIleIleAsp 41

Qy 1063 AAAGGCGAGAACTGGGACATATGGCCTGCACATATAGTGTGAGGCTGGTAGAGATGTG 1122

Db 42 GlyArgGlnArgTrpGlyHisArgIleLeuHisTyrSerPheGlnPheLeuGluAsnVal 61

Qy 1123 ATCATGGTCTTGGTGTGTTTAAAGTTCTTTCGGAGTGAAGTGTACTGAATTACTGTCTATCC 1182

Db 62 IleMetIleLeuValPheArgPheGlyGlyLysThrLeuLeuAsnCysCysAspSer 81

Qy 1183 TTGATTGCTTGCAGCTCATTTATGCTTATCTGATTTCATTGGCTTCATGCTCCTTTTC 1242

Db 82 LeuIleAlaValGlnLeuIleSerTyrLeuLeuAlaThrGlyPheMetLeuLeuPhe 101

Qy 1243 TTCAGTACTTGCATCCATTCGCTCA 1269

Db 102 TyrGlnTyrLeuTyrProTrpGlnSer 110

RESULT 15

ABB29870

ID ABB29870 standard; Peptide; 86 AA.

XX AC ABB29870;

XX DT 01-FEB-2002 (first entry)

XX DE Peptide #2521 encoded by breast cell single exon nucleic acid probe.

XX KW Human; microarray; single exon probe; gene expression; breast;

XX KW disease; cancer.

XX OS Homo sapiens.

XX PN WO200157271-A2.

XX PD 09-AUG-2001.

XX 30-JAN-2001; 2001WO-US00662.

XX 04-FEB-2000; 2000US-0180312.

XX 26-MAY-2000; 2000US-0207456.

XX PR

Search completed: April 1, 2003, 08:53:20  
Job time : 69.5 secs